

Certificate of Analysis for NR-58710

Genomic DNA from Monkeypox Virus, hMPXV/USA/MA001/2022 (Lineage B.1, Clade IIb)

Catalog No. NR-58710

Product Description:

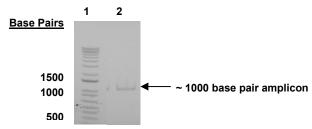
Genomic DNA was isolated from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (BSC-40; ATCC® CRL-2761™) infected with monkeypox virus (MPXV), hMPXV/USA/MA001/2022 (Lineage B.1, Clade IIb) (BEI Resources lot 70054242) using using QIAamp® Viral RNA Mini Kit (Qiagen® 52906).

Lot: 70056170 Manufacturing Date: 04OCT2022

| TEST | SPECIFICATIONS | RESULTS |
|---|---|--|
| Next-Generation Sequencing (NGS) of Complete Genome Using Illumina [®] iSeq™ 100 Platform | ≥ 98% identity with MPXV, hMPXV/USA/MA001/2022 (GISAID: 13052289.3) | 99.99% identity with MPXV, hMPXV/USA/MA001/2022 (GISAID: 13052289.3) |
| Functional Activity by PCR Amplification ¹ HA gene (~ 1000 base pairs) | ~ 1000 base pair amplicon | ~ 1000 base pair amplicon (Figure 1) |
| Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 18 replicates) | Report results | 2.13 × 10 ⁶ genome copies per mL |
| Estimated Amount per Vial | Report results | 0.33 ng per vial |
| Virus Inactivation 10% of total yield inoculated on BSC40 cells and evaluated for cytopathic effect after serial passage ² | No viable virus detected | No viable virus detected |

¹Amplified using iTaq™ DNA Polymerase (Bio-Rad 170-8870) with 5 µL of NR-58710 in a 50 µL reaction

Figure 1: Functional Activity of NR-58710 by PCR Amplification of HA Gene



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder

Lane 2: NR-58710

/Sonia Bjorum Brower/ Sonia Bjorum Brower

31 OCT 2022

Lead Technical Writer or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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²Use of the standard extraction method has been demonstrated to consistently inactivate 100% of orthopox as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells for two passages.